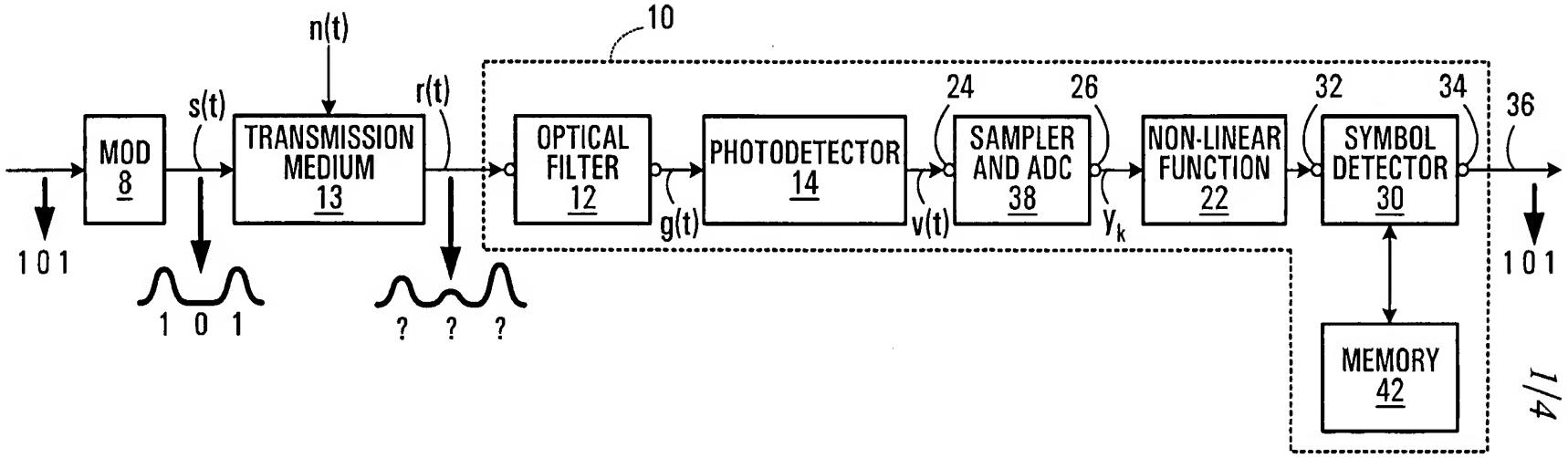
n(t)
10
s(t)
r(t)
24
26
32
34
36
MOD
8
TRANSMISSION
MEDIUM
13
OPTICAL
FILTER
12
PHOTODETECTOR
14
SAMPLER
AND ADC
38
NON-LINEAR
FUNCTION
22
SYMBOL
DETECTOR
30
1 0 1
g(t)
v(t)
y_k
1 0 1
1 0 1
? ? ?
MEMORY
42

FIG. 1

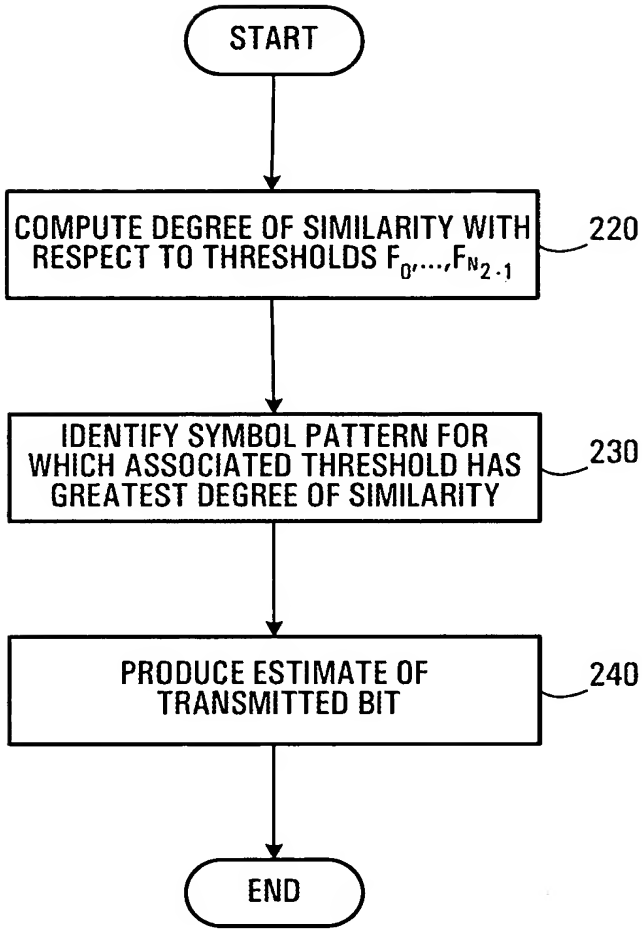
START
COMPUTE DEGREE OF SIMILARITY WITH RESPECT TO THRESHOLDS $F_0,\ldots,F_{N_2-1}$
220
IDENTIFY SYMBOL PATTERN FOR WHICH ASSOCIATED THRESHOLD HAS GREATEST DEGREE OF SIMILARITY
230
PRODUCE ESTIMATE OF TRANSMITTED BIT
240
END

FIG. 2

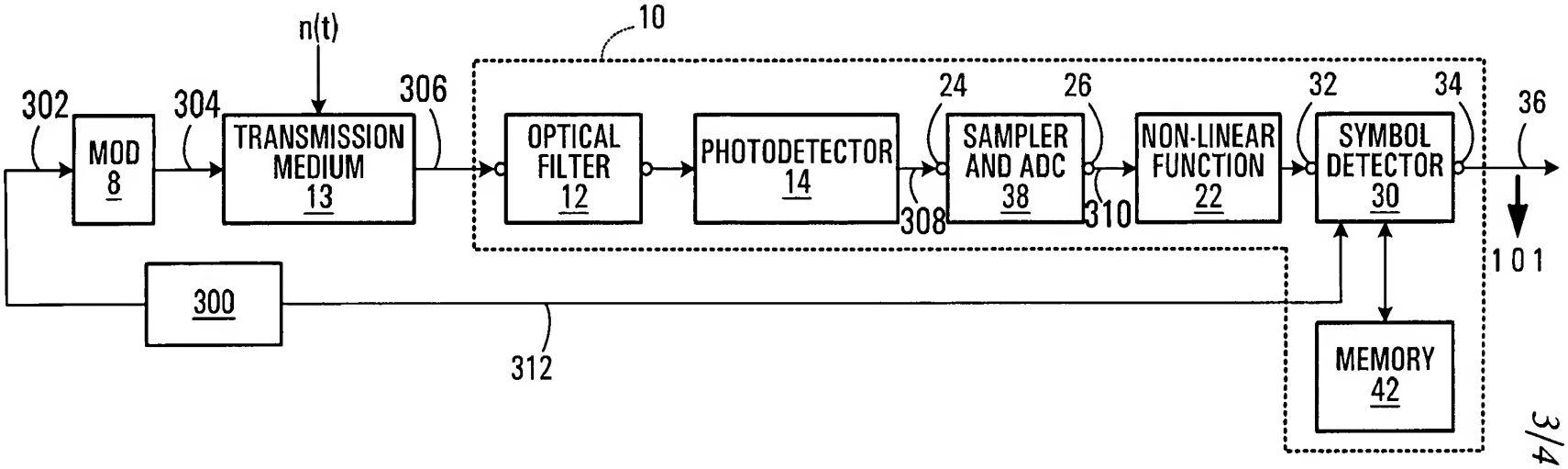
n(t)
10
302
304
306
24
26
32
34
36
MOD
8
TRANSMISSION
MEDIUM
13
OPTICAL
FILTER
12
PHOTODETECTOR
14
SAMPLER
AND ADC
38
NON-LINEAR
FUNCTION
22
SYMBOL
DETECTOR
30
308
310
101
300
312
MEMORY
42

FIG. 3

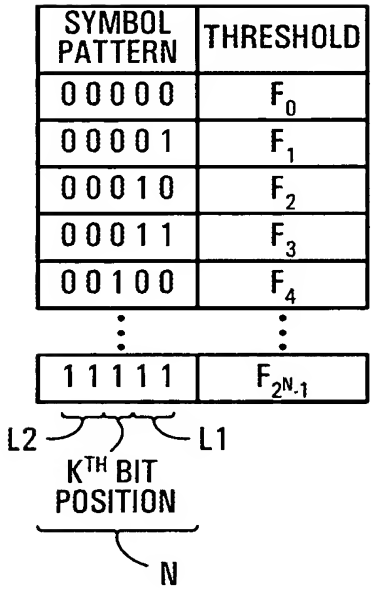
SYMBOL PATTERN
THRESHOLD
00000
F0
00001
F1
00010
F2
00011
F3
00100
F4
11111
F2N-1
L2
L1
KTH BIT POSITION
N

FIG. 4